## IN THE CLAIMS:

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#### 1 - 14 (Cancelled)

- 15. (Currently Amended) A continuous process for the preparation of silane of formula SiH<sub>4</sub> by catalytic disproportionation of trichlorosilane of formula SiHCl<sub>3</sub> to form SiH<sub>4</sub> and silicon tetrachloride of formula SiCl<sub>4</sub> in a reactive/distillative reactive and distillative reaction zone comprising
- introducing SiHCl<sub>3</sub> into a reactive/distillative reactive and distillative reaction zone comprising a catalyst bed of a catalytically active solid at a pressure of 1 to 50 bar to form a lower-boiling SiH<sub>4</sub>-containing product and a higher-boiling SiCl<sub>4</sub>-containing bottom product;
  - (b) removing the lower-boiling SiH<sub>4</sub>-containing product from the reactive/distillative reactive and distillative reaction zone and condensing the SiH<sub>4</sub>-containing product in an intermediate condensation at a temperature in the range from -5°C to 40°C;
  - introducing the lower-boiling SiH<sub>4</sub>-containing product which is not condensed in the intermediate condensation into a rectifying section and increasing the SiH<sub>4</sub>-concentration in the SiH<sub>4</sub>-containing product which is not condensed in the intermediate condensation;
  - (d) further condensing any SiH<sub>4</sub>-containing product that is not condensed in the intermediate condensation and concentrated in the rectifying section in an overhead condenser from which the SiH<sub>4</sub>-containing product is discharged as final product.

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16. (Previously Presented) A process according to Claim 15 wherein the pressure in the catalyst bed is from 1 to 10 bar.

### 17. (Cancelled)

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- 18. (Previously Presented) A process according to Claim 15 wherein the SiH<sub>4</sub>-containing product discharged is separated in the overhead condenser at a pressure higher than the pressure employed in the intermediate condensation.
  - 19. (Currently Amended) A process according to Claim 15, further comprising: introducing the product from the overhead condenser into a separation column; collecting chlorosilane in said separation column;

feeding wherein all or part of the chlorosilane is returned to the reactive/distillative reactive and distillative reaction zone.

- 20. (Currently Amended) An installation for the continuous preparation of silane of formula SiH<sub>4</sub> by catalytic disproportionation of trichlorosilane of formula SiHCl<sub>3</sub> to form SiH<sub>4</sub> and silicon tetrachloride of formula SiCl<sub>4</sub> in a reaction column having
- (1) a reactive/distillative reactive and distillative reaction zone comprising a catalyst bed made of solid bodies of catalytically active solid and through which the

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- disproportionation products and trichlorsilane can flow,
- (2) an inlet for introducing SiHCl<sub>3</sub> into the reactive zone,
- (3) an overhead condenser connected to the reaction column for condensing the SiH<sub>4</sub>containing product that is formed and having an outlet for condensed SiH<sub>4</sub> at the
  overhead condenser,
- (4) at least one intermediate condenser arranged between the reactive/distillative reactive and distillative reaction zone and the overhead condenser, wherein the at least one intermediate condenser is operated at a temperature in the range from 5°C to 40°C,
- (5) a rectifying section for increasing the SiH<sub>4</sub>-concentration in the lower-boiling SiH<sub>4</sub>-containing product which is not condensed in the at least one intermediate condenser being arranged downstream of the at least one intermediate condenser in a direction of flow of the lower-boiling SiH<sub>4</sub>-containing product coming from the at least one intermediate condenser, and
- (6) an outflow for SiCl<sub>4</sub> obtained as bottom product, for carrying out the process according to Claim 15 is arranged in the reactive and distillative reaction zone.

#### 21. (Cancelled)

22. (Previously Presented) An installation according to Claim 20 wherein the at least one intermediate condenser is arranged above the catalyst bed.

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# 23. (Cancelled)

- 24. (Previously Presented) An installation according to Claim 20 wherein a separation column for separating SiH<sub>4</sub>-containing product fractions from higher-boiling chlorosilane components is arranged downstream of the at least one intermediate condenser in a direction of flow of the lower-boiling product mixture coming from the at least one intermediate condenser.
- 25. (Previously Presented) An installation according to Claim 24 wherein the separation column is arranged downstream of the rectifying section.
- 26. (Previously Presented) An installation according to Claim 25 wherein the overhead condenser is arranged between the rectifying section and the separation column.
- 27. (Previously Presented) An installation according to Claim 24 wherein the separation column is operated at a pressure higher than the pressure in the at least one intermediate condenser and the product that is conducted to the separation column is compressed.
- 28. (Currently Amended) An installation according to Claim 24 wherein a branch line that opens into a reactive/distillative reactive and distillative reaction zone of the reaction

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column is connected to a bottom outlet of the separation column.

29. (Currently Amended) A process for producing silane, the process comprising the steps of:

providing a reactive/distillative reactive and distillative reaction zone including a catalyst bed of a catalytically active solid forming a lower-boiling SiH<sub>4</sub>-containing product and a higher-boiling SiCl<sub>4</sub>-containing bottom product;

introducing SiHCl<sub>3</sub> into the reactive/distillative reactive and distillative reaction zone at a pressure of 1 to 50 bar and forming the lower-boiling SiH<sub>4</sub> -containing product and the higher-boiling SiCl4-containing bottom product;

removing the lower-boiling SiH<sub>4</sub>-containing product from the reactive/distillative reactive and distillative reaction zone;

cooling the SiH<sub>4</sub>-containing product after said removing in an intermediate condensation with temperatures in the range from -5°C to 40°C;

providing a rectifying section;

introducing the lower-boiling SiH<sub>4</sub>-containing product which is not condensed during said cooling into a rectifying section to increasing a SiH<sub>4</sub>-concentration in the SiH<sub>4</sub>-containing product;

condensing the SiH<sub>4</sub>-containing product from the rectifying section in an overhead condenser from which the SiH<sub>4</sub>-containing product is discharged as final product.